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Question Paper Code: U6605

M.E./M.Tech. DEGREE EXAMINATION, NOV 2025

Second Semester

21PSE605- SMART CITY TECHNOLOGIES

Mechanical Engineering

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 20 = 100 Marks)

1. (a) Summarize the selection and importance of factors involved in the construction of smart cities. CO4 -App (20)
Or
(b) Examine the Feasibility of smart cities and what are the steps involved in Smart city construction? CO4-App (20)
2. (a) Analyze in detail about various framework involved in smart cities. CO2-Ana (20)
Or
(b) Analyze in detail about Environmental and energy resources involved in smart cities? CO2- Ana (20)
3. (a) Design and construct smart building and detail explain about infrastructure development CO4-App (20)
Or
(b) Summarize the emerging efficient design strategies in smart buildings with suitable examples? CO4-App (20)
4. (a) Examine in detail about Data visualization. CO4- App (20)
Or
(b) Design and develop a strategy for data analytics in smart cities. CO4- App (20)

5. (a) Compare IoT and assessment in traffic management system? CO2- Ana (20)
Or
(b) Apply the process and importance of Metropolitan committee CO2 -Ana (20)